

Fig. 1

	Uc = 0V (Ucap empty)		Uc = 9 V (DC/DC converter)		Uc = 12V (desired OP)		Uc = 15V (Ucap full)	
SOC	< 70%	≥ 70%	< 70%	≥ 70%	< 70%	≥ 70%	< 70%	≥ 70%
0 - Initial start	Ucap: - Batt: Start + Veh. elec. sys	Ucap: - Batt: Start + Veh. elec. sys	Ucap: - Batt: Start + Veh. elec. sys	Ucap: - Batt: Start + Veh. elec. sys	Ucap: Start Batt: Batt: Veh. elec. sys	Ucap: Start Batt: Batt: Veh. elec. sys	Ucap: Start Batt: Batt: Veh. elec. sys	Ucap: Start Batt: Batt: Veh. elec. sys
1 - Boost	Ucap: - Batt: Boost + Veh. elec. sys	Ucap: - Batt: Boost + Veh. elec. sys	Ucap: - Batt: Boost + Veh. elec. sys	Ucap: - Batt: Boost + Veh. elec. sys	Ucap: Boost Batt: Batt: Veh. elec. sys	Ucap: Boost Batt: Batt: Veh. elec. sys	Ucap: Boost Batt: Batt: Veh. elec. sys	Ucap: Boost Batt: Batt: Veh. elec. sys
2 - v = const.	Ucap: - Batt: Recup. Veh. elec. sys + Charge batt	Ucap: - Batt: Recup. Veh. elec. sys + Charge batt	Ucap: - Batt: Recup. Veh. elec. sys + Charge batt	Ucap: - Batt: Recup. Veh. elec. sys + Charge batt	Ucap: - Batt: Recup. Veh. elec. sys + Charge batt	Ucap: - Batt: Recup. Veh. elec. sys + Charge batt	Ucap: - Batt: Recup. Veh. elec. sys + Charge batt	Ucap: - Batt: Recup. Veh. elec. sys + Charge batt
3 - Recup.	Ucap: Recup. Batt: Veh. elec. sys	Ucap: Recup. Batt: Veh. elec. sys	Ucap: Recup. Batt: Veh. elec. sys	Ucap: Recup. Batt: Veh. elec. sys	Ucap: Recup. Batt: Veh. elec. sys	Ucap: Recup. Batt: Veh. elec. sys	Ucap: Recup. Batt: Veh. elec. sys	Ucap: Recup. Batt: Veh. elec. sys
4 - Stop/Start	Ucap: - Batt: Start + Veh. elec. sys	Ucap: - Batt: Start + Veh. elec. sys	Ucap: - Batt: Start + Veh. elec. sys	Ucap: - Batt: Start + Veh. elec. sys	Ucap: Start Batt: Batt: Veh. elec. sys	Ucap: Start Batt: Batt: Veh. elec. sys	Ucap: Start Batt: Batt: Veh. elec. sys	Ucap: Start Batt: Batt: Veh. elec. sys

Fig. 2

3/3

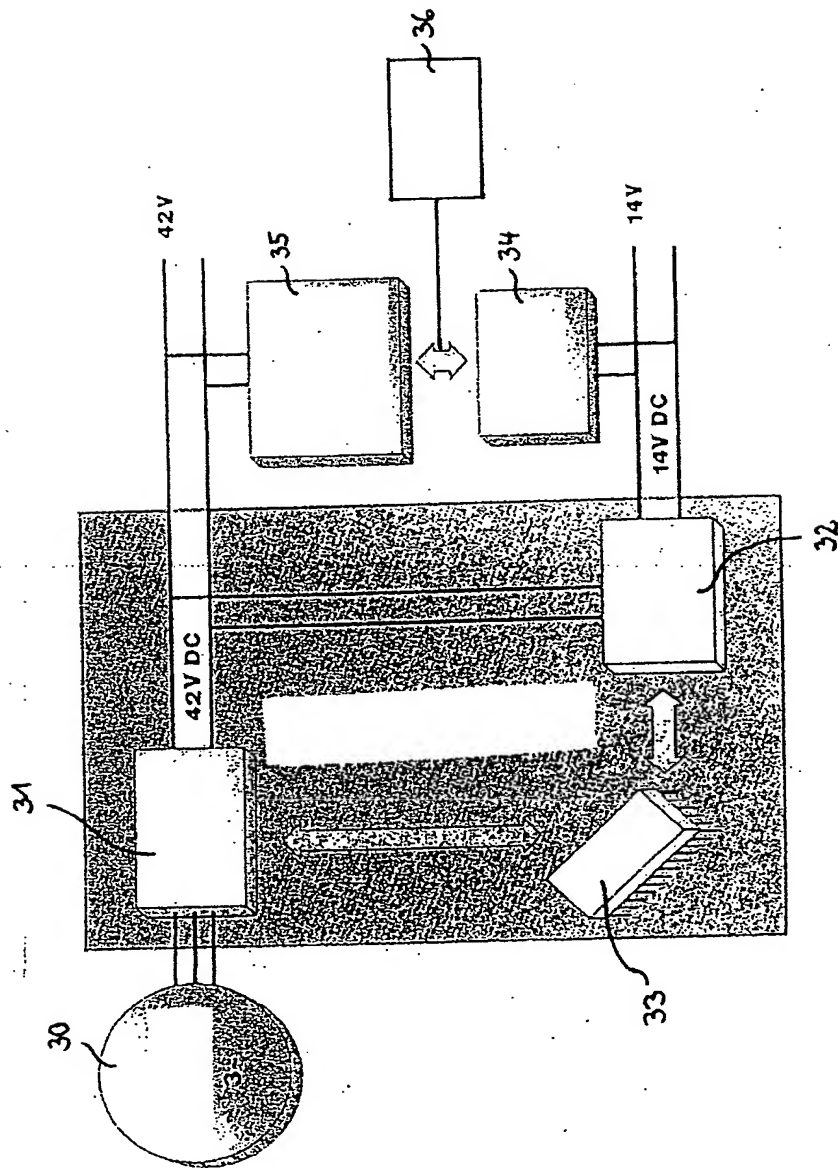


Fig. 3